



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Metal Industries, Inc. (FL)
1985 Carroll St.
Clearwater, FL 33765

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model WDRV-6-MD Aluminum Louver

APPROVAL DOCUMENT: Drawing No. T-1174, titled "WDRV-6-MD", sheets 1 through 5 of 5, dated 11/02/2009, with revision B dated 12/10/2012, prepared by the Metal Industries, Inc., signed and sealed by L. David Rice, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Marion, NC, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 10-0510.02 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Signature]
03/08/2013

NOA No. 12-0604.04
Expiration Date: September 22, 2015
Approval Date: March 14, 2013
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **T-1174**, titled "WDRV-6-MD", sheets 1 through 5 of 5, dated 11/02/2009, with revision B dated 12/10/2012, prepared by the Metal Industries, Inc., signed and sealed by L. David Rice, P.E.

B. TESTS *"Submitted under NOA # 10-0510.02"*

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of three Model WDRV-6-MD, hurricane impact louver panels", prepared by Architectural Testing, Inc., Report No. **93801.02-401-18**, dated 03/29/2010, signed and sealed by Joseph A. Reed, P.E.

B. CALCULATIONS

1. Anchor verification calculations prepared by Rice Engineering, dated 08/30/2012, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 10-0510.02"
2. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 07/13/2010, signed and sealed by L. David Rice, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to 2010 FBC, issued by Rice Engineering, dated 12/19/2012, signed and sealed by L. David Rice, P.E.
2. Stock purchase letter issued by Metal Industries, Inc., dated 10/02/2012, signed by Elizabeth P. Francis, Esq.

"Submitted under NOA # 10-0510.02"
3. No financial interest letter issued by issued by Rice Engineering, dated 04/08/2010, signed and sealed by L. David Rice, P.E.
4. Code compliance letter issued by Architectural Testing, Inc., dated 03/29/2010, signed and sealed by Joseph A. Reed, P.E.


03/08/2013

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 12-0604.04

Expiration Date: September 22, 2015
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FASTENER SCHEDULE			
ANCHOR TYPE	SUBSTRATE ⁽²⁾	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
NO. 12 S.S. SCREW ^{(1) (3)}	WOOD	1 1/2"	3/4"
NO. 12-24 SELF DRILLING SCREW ^(B)	METAL STUD ^(B)	FULL	3/4"
3/8" DIAM. SS POWERS WEDGE BOLT+SCREW ANCHOR	C90 CONCR. BLOCK	2-1/2"	2"
3/8" DIAM. SS POWERS WEDGE BOLT+SCREW ANCHOR	CONCRETE	3"	4-1/2"
NO. 12-24 SS SELF-DRILLING SCREW	STRUCTURAL STEEL	FULL	3/4"
NO. 12-24 SS SELF-DRILLING SCREW	ALUM. CURTAIN WALL	FULL	3/4"
(1) WOOD SCREWS SHALL HAVE MIN. YIELD STRENGTH OF F = 80,000 PSI WITH #12 & 70,000 PSI WITH #14.			
(2) CONCRETE AND MASONRY SCREWS SHALL BE POWERS WEDGE BOLTS OR EQUAL.			
(3) SEE GENERAL NOTES FOR SUBSTRATE REQUIREMENTS.			

CORNER & BLADE END CONSTRUCTION

BLADE TO RETAINER: BLADE END BUTTS TO HEAD AND SILL RETAINER, AND IS WELDED WITH TWO 1/8" X 1/4" WELDS.

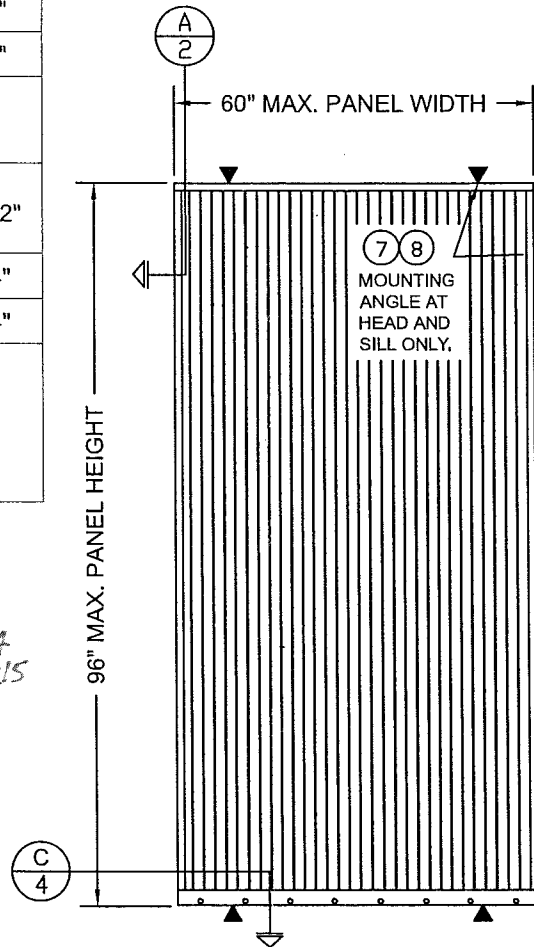
HEAD TO JAMB: SIDE JAMB BUTTS TO HEAD AND IS JOINED TO HEAD WITH ONE 1/8" X 6" WELD.

SILL TO JAMB: SIDE JAMB BUTTS TO SILL AND IS JOINED TO SILL WITH ONE 1/8" X 6" WELD.

PRODUCT REVISED
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Acceptance No 12-0604.04
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By *[Signature]*
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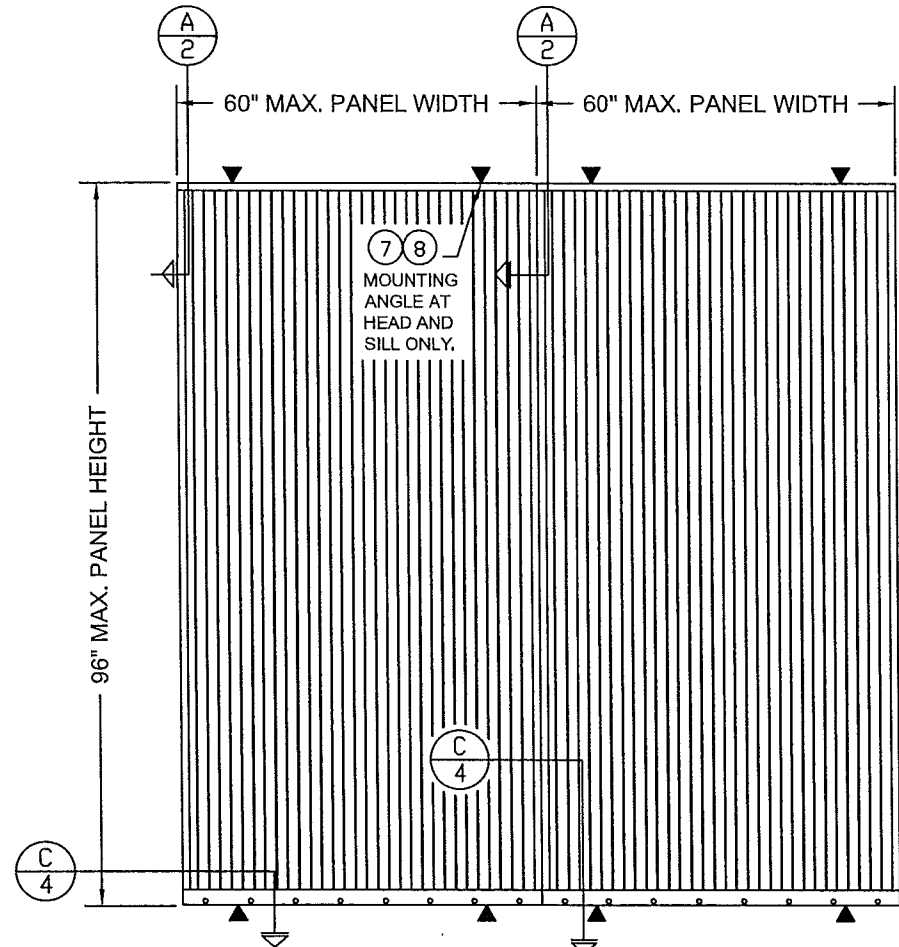
GENERAL NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS SUPERIMPOSED BY THE LOUVERS.
- THESE LOUVER SYSTEMS HAVE BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND PROTOCOLS 201, 202 & 203 FOR HIGH VELOCITY HURRICANE ZONE (HVHZ) AREAS.
- EACH LOUVER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS:
METAL INDUSTRIES, INC. ^(B)
MARION, NC
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- ALL CONCRETE SUBSTRATE SHALL BE MIN. 4000 PSI.
- ALL WOOD SUBSTRATE SHALL BE MIN. G = 0.45 DENSITY.
- ALL METAL STUD SUBSTRATE SHALL BE MIN. 16GA Fy = 33 ksi.
- ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 1/8" THICK. Fy = 36 ksi; ALUM: 1/8" MIN. THICK 6063-T6.
- PANEL WIDTHS & HEIGHTS ARE LIMITED AS SHOWN IN ELEVATIONS.
- MULLED PANELS MAY BE HORIZONTALLY INSTALLED TO AN UNLIMITED NUMBER. VERTICAL STACKING OF MULLED PANELS (UNDER SEPERATE APPROVAL) MAY OCCUR PROVIDING A STRUCTURAL SUPPORT IS DESIGNED & INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER ASSEMBLY (SINGLE NON-REINFORCED PANELS MAY RUN TO UNLIMITED HEIGHT PER ELEVATION IF NO MULLION EXISTS).
- SEPARATION OF DISSIMILAR MATERIALS MUST BE MAINTAINED PER ALL APPLICABLE CODES & SECTION 2003.8.4 OF FBC 2010.
- NOT USED. ^(B)
- 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN CONSIDERED IN THE DESIGN OF THESE LOUVER SYSTEMS.
- FOR MULTI-PANEL LOUVERS, ANCHORS MUST BE SPACED TO MEET THE MINIMUM SPACING REQUIREMENTS OF THE ANCHOR BOLTS/SCREWS.
- LOUVER ASSEMBLY QUALIFIED FOR DESIGN LOAD OF +/- 150 PSF.
- LOUVER ASSEMBLY QUALIFIED FOR SMALL AND LARGE MISSILE IMPACT RESISTANCE PER TAS-201.
- MAXIMUM SINGLE LOUVER SIZE IS 60"W X 96"H NOMINAL.
- MAXIMUM LOUVER ASSEMBLY SIZE IS UNLIMITED WIDTH X 96"H NOMINAL.



EXTERIOR ELEVATION
SINGLE LOUVER PANEL

NOTE: LOUVER PANELS MAY BE STACKED/SPICED VERTICALLY OR THE LOUVER PANEL MAY RUN VERTICALLY TO INFINITE HEIGHT PROVIDING OPENING IS PROPERLY DESIGNED BY OTHERS TO SUPPORT THE LOUVER PANELS.

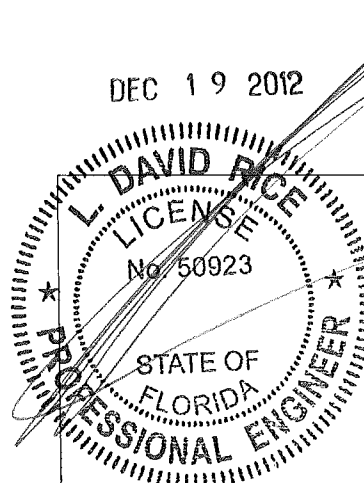


EXTERIOR ELEVATION
MULTI-PANEL LOUVER

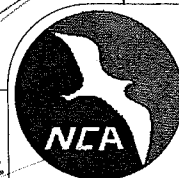
▼ HEAD MOUNTING ANGLE
▲ SILL MOUNTING ANGLE

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone 920.845.1042
Fax 920.845.1048
www.rice-inc.com

Florida Firm No F-01000005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923



^(B)	DADE CO. COMMENTS	VMA		12-10-12
^(A)	DADE CO. COMMENTS	VMA		8-13-12

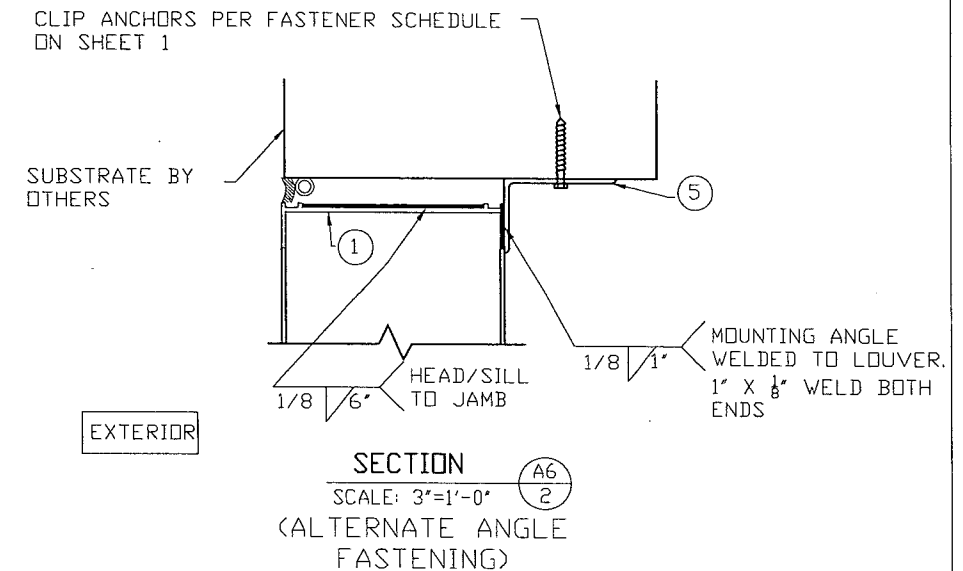
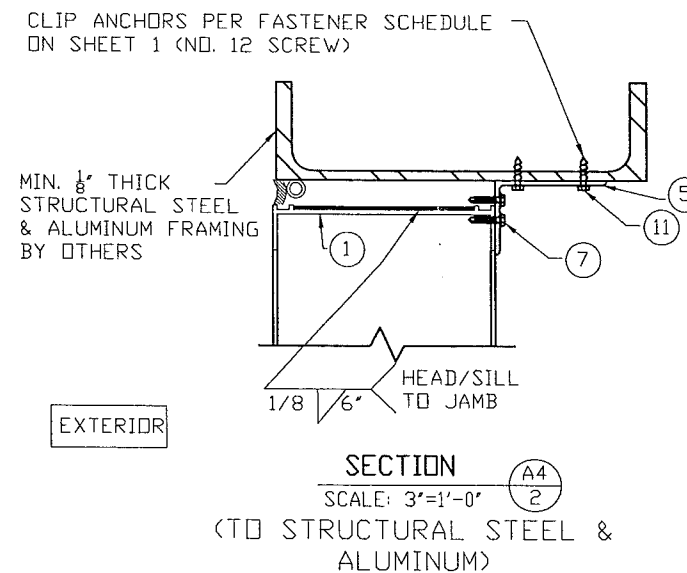
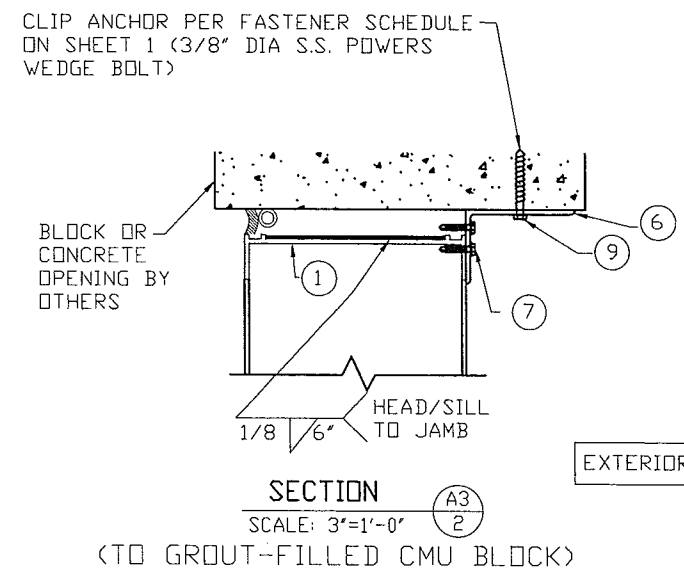
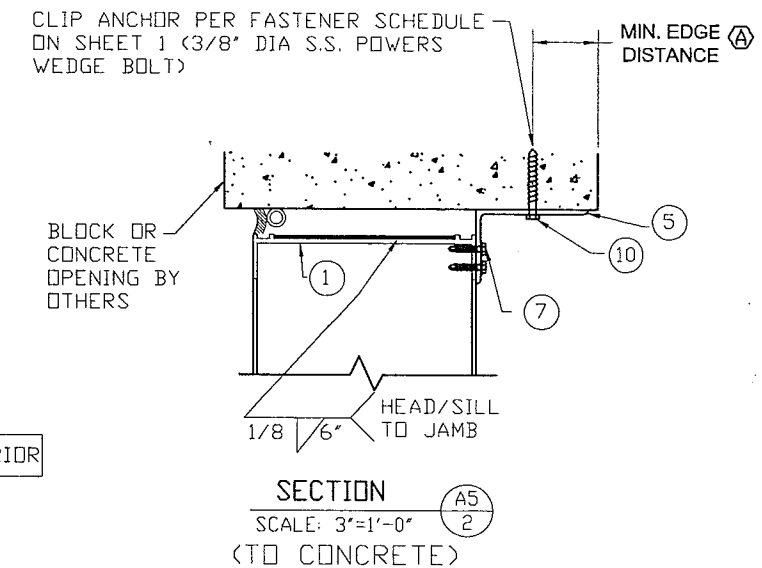
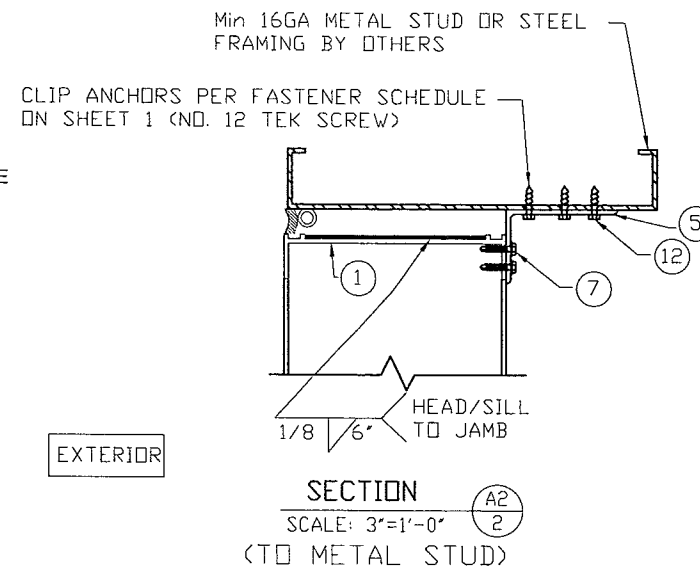
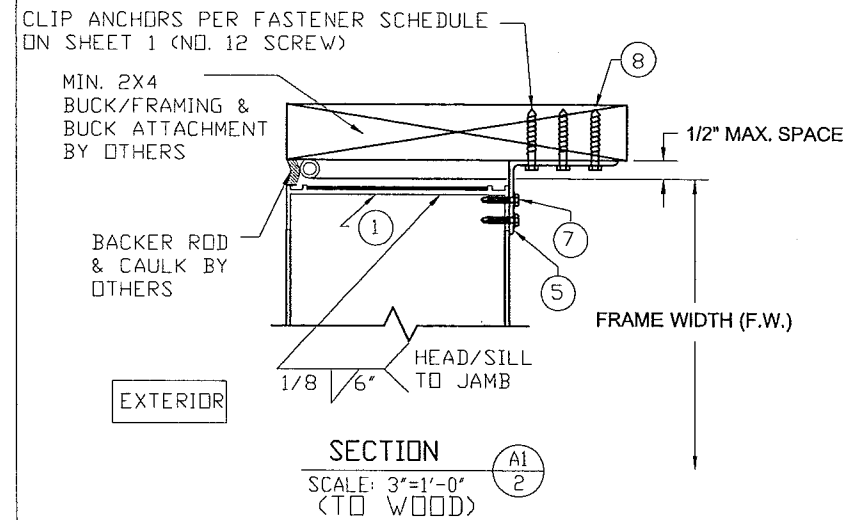


METAL INDUSTRIES, INC.

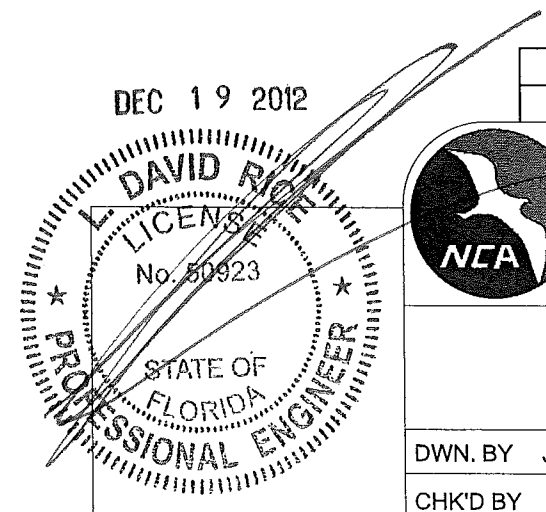
1985 Carroll St.
Clearwater, FL 33765

WDRV-6-MD (Sheet 1 of 5)

DWN. BY JG	DATE 11/2/09	DWG. NO.	REV.
CHK'D BY	SCALE NTS	T-1174-1	



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as complying with the Florida
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Miami Dade Product Control

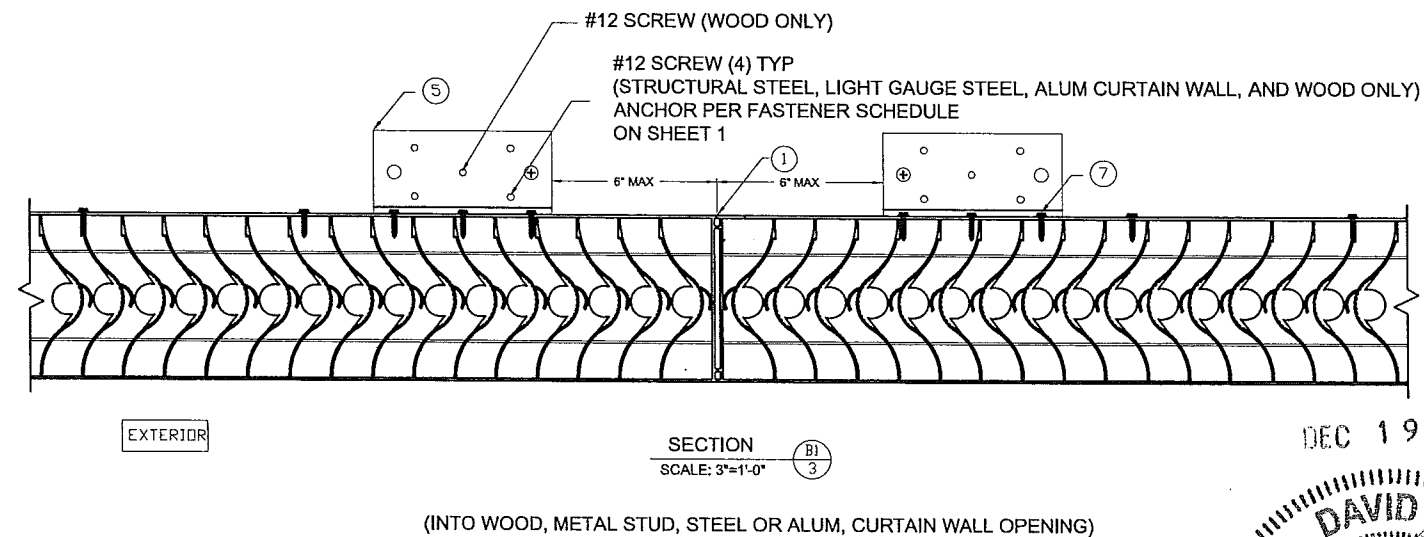
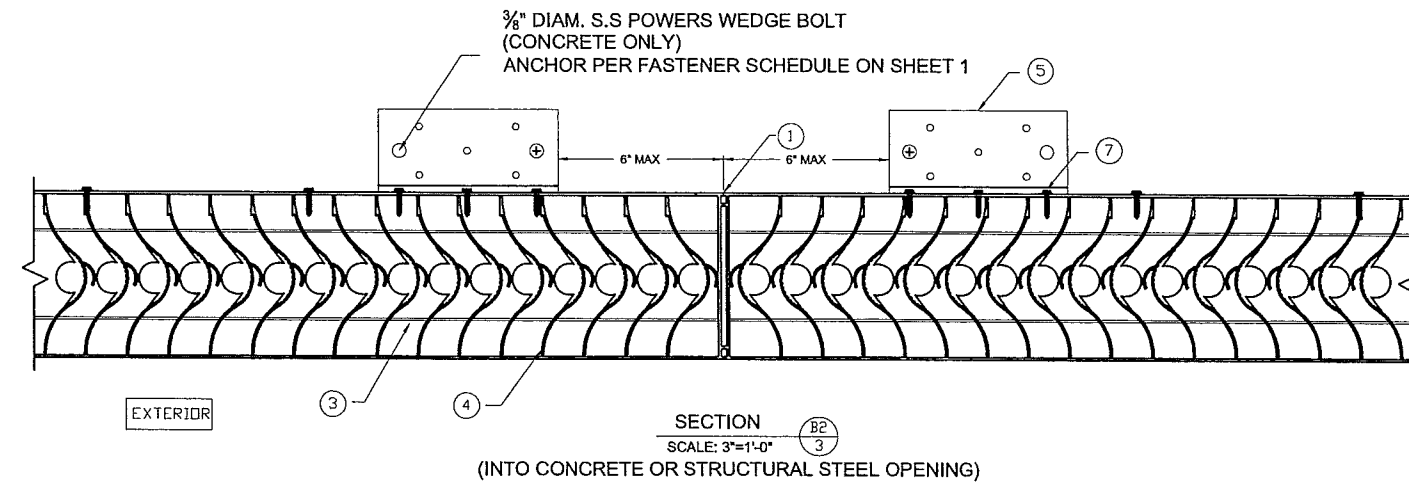
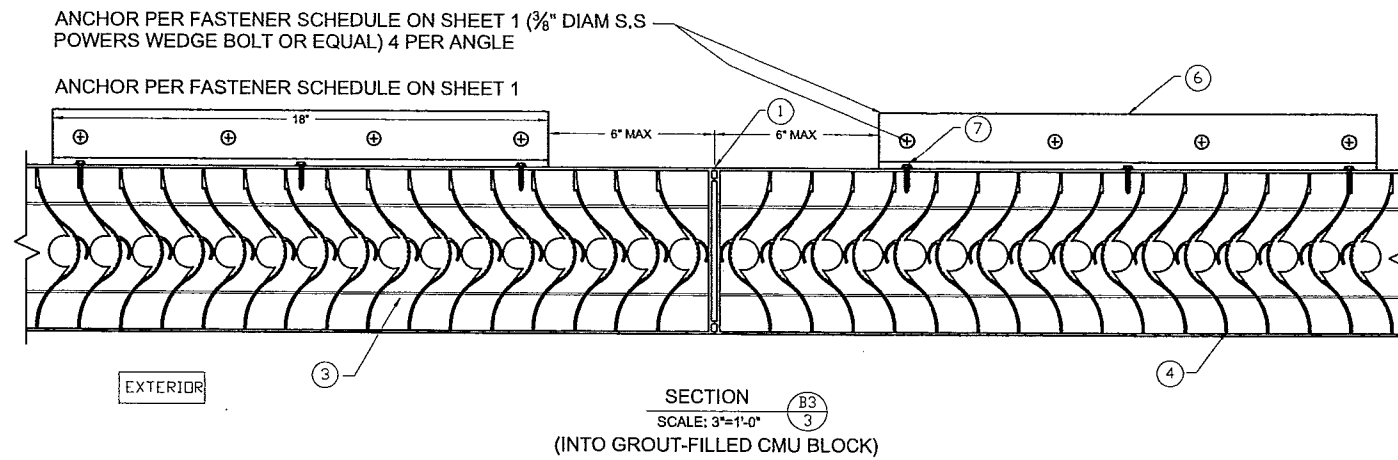


B	DADE CO. COMMENTS	VMA	12-10-12
A	DADE CO. COMMENTS	VMA	8-13-12

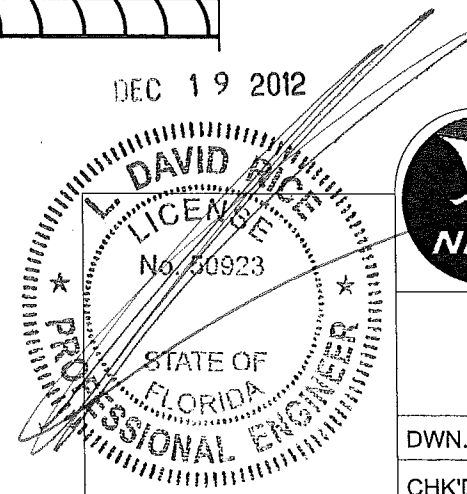
METAL INDUSTRIES, INC.
1985 Carroll St.
Clearwater, FL 33765

WDRV-6-MD (Sheet 2 of 5)

DWN. BY JG	DATE 11/2/09	DWG. NO.	REV.
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B	DADE CO. COMMENTS	VMA		12-10-12
A	DADE CO. COMMENTS	VMA		8-13-12



METAL INDUSTRIES, INC.

1985 Carroll St.
Clearwater, FL 33765

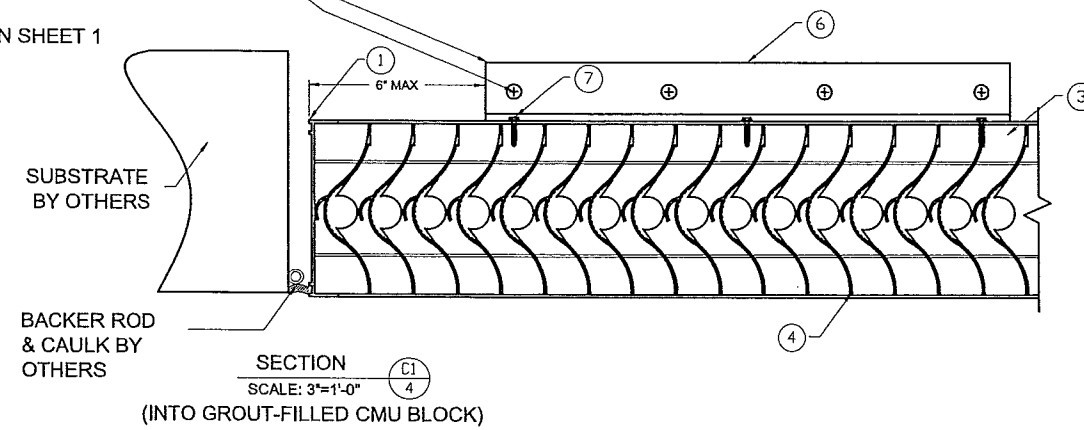
WDRV-6-MD (Sheet 3 of 5)

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CHK'D BY	SCALE NTS	T-1174-3	

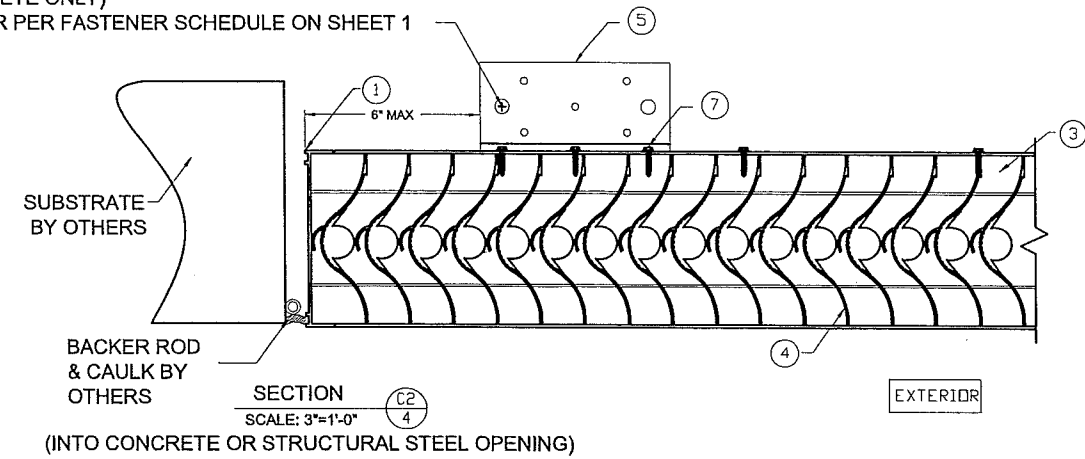
ANCHOR PER FASTENER SCHEDULE ON SHEET 1 ($\frac{3}{8}$ " DIAM S.S POWERS WEDGE BOLT OR EQUAL) 4 PER ANGLE

ANCHOR PER FASTENER SCHEDULE ON SHEET 1

EXTERIOR

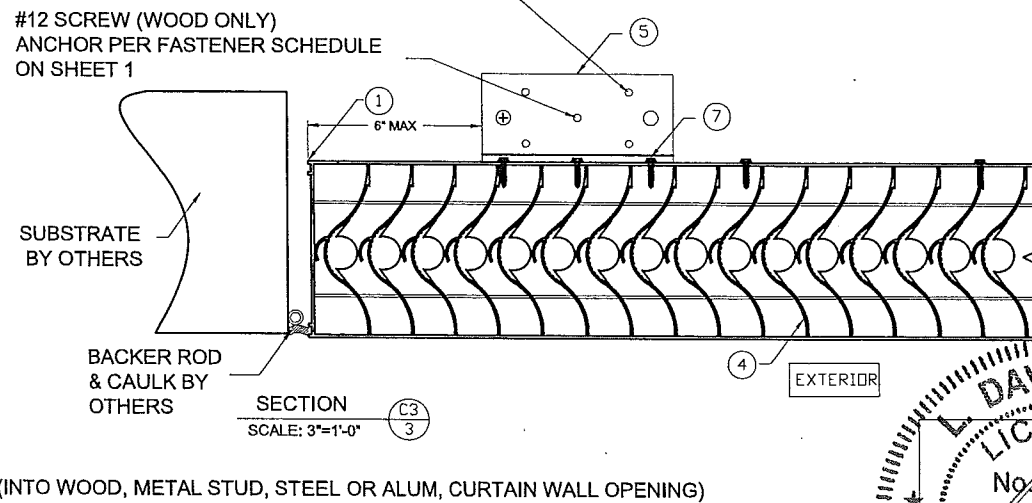


$\frac{3}{8}$ " DIAM. S.S POWERS WEDGE BOLT
(CONCRETE ONLY)
ANCHOR PER FASTENER SCHEDULE ON SHEET 1



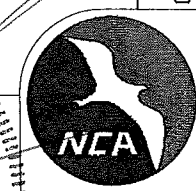
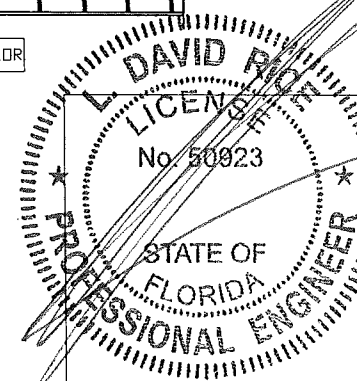
#12 SCREW (4) TYP
(STRUCTURAL STEEL, LIGHT GAUGE STEEL, ALUM CURTAIN WALL, AND WOOD ONLY)

#12 SCREW (WOOD ONLY)
ANCHOR PER FASTENER SCHEDULE
ON SHEET 1



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Miami Dade Product Control

DEC 19 2012



(B)	DADE CO. COMMENTS	VMA		12-10-12
(A)	DADE CO. COMMENTS	VMA		8-13-12

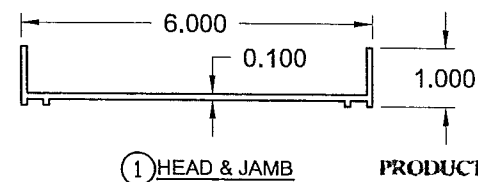
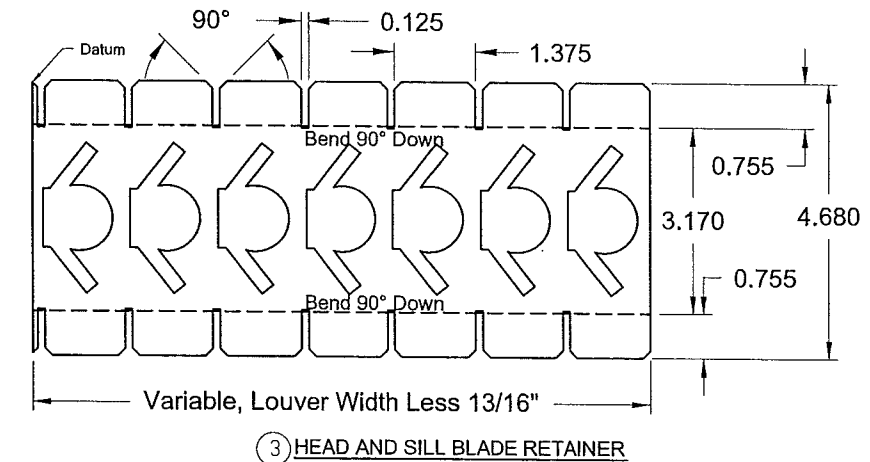
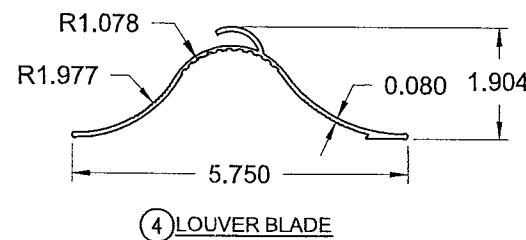
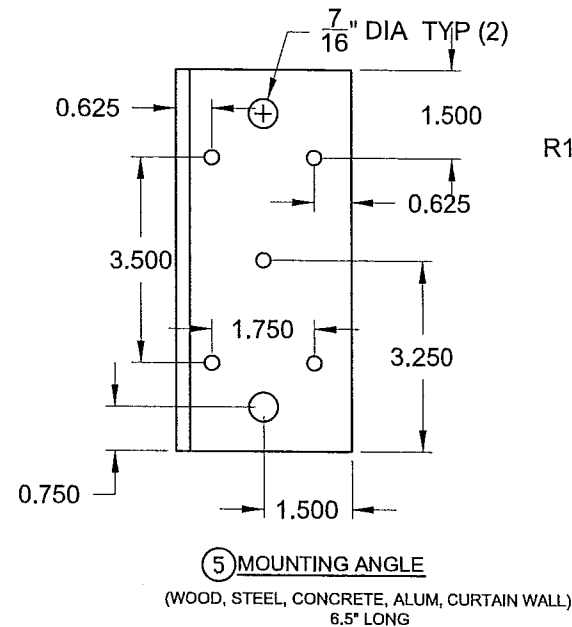
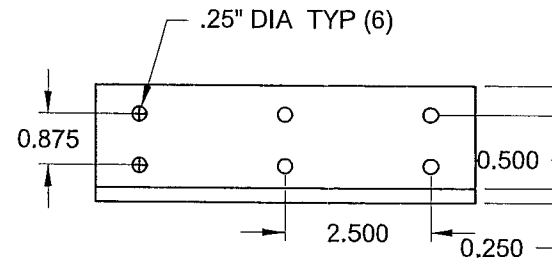
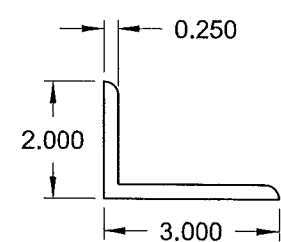
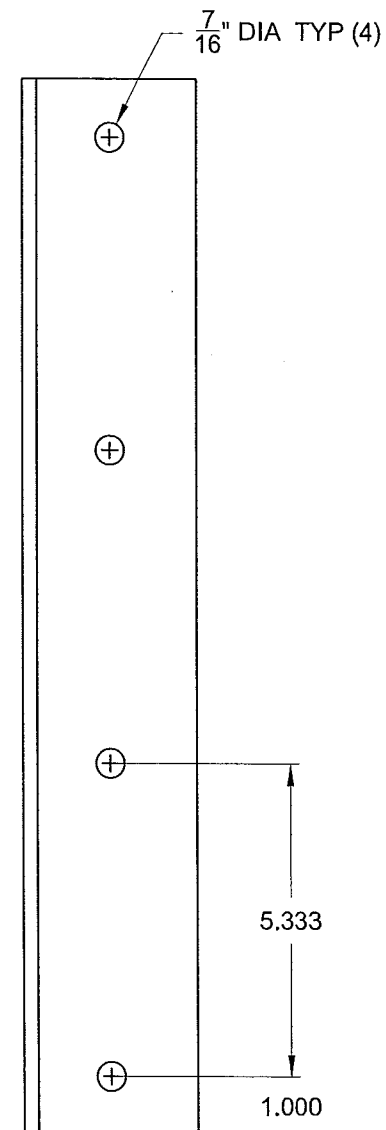
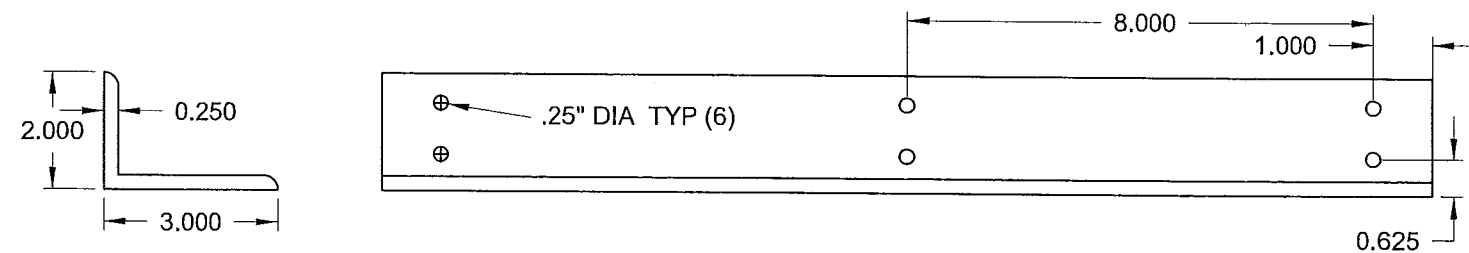


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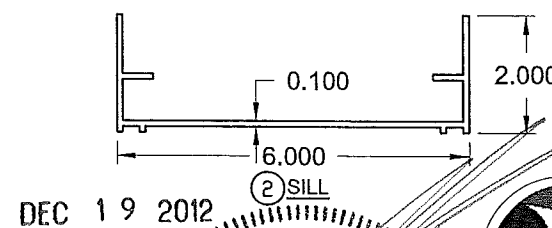
WDRV-6-MD (Sheet 4 of 5)

DWN. BY JG	DATE 11/2/09	DWG. NO.	REV.
CHK'D BY	SCALE NTS	T-1174-4	

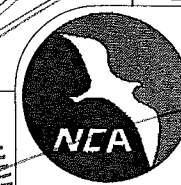


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ITEM #	ITEM DESCRIPTION	MATERIAL - NOTES
PARTS		
1	HEAD & JAMB(S)	6063-T6 ALUMINUM
2	SILL	6063-T6 ALUMINUM
3	HEAD & SILL BLADE RETAINER .080	3003 ASTM B209 or 5052 ASTM B209
4	LOUVER BLADE	6063-T5 OR T6 ALUMINUM
5	MOUNTING ANGLE	6063-T5 OR T6 ALUMINUM
6	MOUNTING ANGLE	6061-T6 ALUMINUM
MISC. FASTENERS		
7	NO. 12-24 X 1" SELF-DRILLING SCREW	6-PER MOUNTING ANGLE
8	NO. 12 X 1-1/2" SS SMS	WOOD- FIVE PER MOUNTING ANGLE
9	3/8" DIA X 2-1/2" SS POWER WEDGE BOLT	C90 CONCRETE BLOCK; 5-PER MOUNTING ANGLE
10	3/8" DIA X 3" SS POWER WEDGE BOLT	CONCRETE ; 2-PER MOUNTING ANGLE
11	NO. 12-24 X 1" SS SELF DRILLING SCREW	STRUCTURAL STEEL & ALUM.CURTAIN WALL 4-PER MOUNTING ANGLE
12	NO. 12-24 X 1" SS SELF DRILLING SCREW	METAL STUDS ; 5-PER MOUNTING ANGLE



DADE CO. COMMENTS	VMA	8-13-12
DADE CO. COMMENTS	VMA	8-13-12



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WDRV-6-MD (Sheet 5 of 5)

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